INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/004557

A. CLASSIFIC Int.Cl ⁷	ATION OF SUBJECT MATTER H01L21/68, H02N13/00		
According to Inte	ernational Patent Classification (IPC) or to both national	classification and IPC	
B. FIELDS SE.	ARCHED		
Minimum docum Int . Cl ⁷	entation searched (classification system followed by class H01L21/68, H02N13/00, B23Q3/1	sification symbols) 5	
	earched other than minimum documentation to the exten	t that such documents are included in the	fields searched
		suyo Shinan Toroku Koho oku Jitsuyo Shinan Koho	1996-2005 1994-2005
Electronic data b	ase consulted during the international search (name of da	ata base and, where practicable, search te	rms used)
2.0000		-	
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app		Relevant to claim No.
X	JP 6-302678 A (Tokyo Electron 28 October, 1994 (28.10.94),	ı Ltd.),	1-3,13,20,21 15-19
Y A	Full text; all drawings		7,8
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Y A	Full text; all drawings & EP 1124404 Al		4,6,14,17-19
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	& WO 2001/039551 A1		
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× Further do	ocuments are listed in the continuation of Box C.	See patent family annex.	
Special cate A document d	gories of cited documents: lefining the general state of the art which is not considered	T later document published after the integrated date and not in conflict with the application.	ation but cited to understand
to be of particular relevance		the principle or theory underlying the i "X" document of particular relevance; the	
filing date	•	considered novel or cannot be consi step when the document is taken alone	dered to involve an inventive
cited to est	which may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other on (as specified)	'Y' document of particular relevance: the considered to involve an inventive	claimed invention cannot be
	on (as specified) eferring to an oral disclosure, use, exhibition or other means	combined with one or more other such	documents, such combination
	oublished prior to the international filing date but later than date claimed	being obvious to a person skilled in the document member of the same patent	
Date of the actual completion of the international search 13 June, 2005 (13.06.05)		Date of mailing of the international sea 28 June, 2005 (28.	
13 0 0 11	e, 2003 (13.00.03)	20 0 410, 2003 (20.	
Name and maili	ng address of the ISA/	Authorized officer	
Japane	se Patent Office		
Facsimile No.		Telephone No.	
Form PCT/ISA/2	10 (second sheet) (January 2004)		

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Y	JP 2003-179128 A (NGK Spark Plug Co., Ltd.), 27 June, 2003 (27.06.03), Full text; all drawings (Family: none)	9
Y	JP 2004-31594 A (Kyocera Corp.), 29 January, 2004 (29.01.04), Par. No. [0019]; Fig. 2 (Family: none)	10-12
Y	JP 2003-318251 A (Kyocera Corp.), 07 November, 2003 (07.11.03), Claims; Fig. 2 (Family: none)	18
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Y	JP 8-64663 A (Sumitomo Metal Industries, Ltd.), 08 March, 1996 (08.03.96), Full text; all drawings (Family: none)	19
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